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Customer Number  
**27849**  
PATENT TRADEMARK OFFICE

TO: Commissioner for Patents  
**Mail Stop Patent Application**  
P.O. Box 1450  
Alexandria, VA 22313-1450

Attorney Docket No. **249/446**

**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(new nonprovisional application under 37 CFR 1.53(b))**

Transmitted herewith for filing is the patent application of:

INVENTOR(S): **Soon-won HWANG; I-hun SONG; Tae-wan KIM**

TITLE: **METHOD FOR FORMING A MAGNETIC TUNNELING JUNCTION**  
**LAYER FOR MAGNETIC RANDOM ACCESS MEMORY**

In connection with this application, the following are enclosed:

**APPLICATION ELEMENTS:**

☒ Text (Specification, Claims & Abstract) - 32 TOTAL PAGES

(preferred arrangement:)

- Descriptive Title of the Invention
- Cross Reference to Related Applications
- Statement Regard Fed sponsored R&D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

☒ Drawings - 9 Total Sheets (depicting Figures 1-14, inclusive.)

☒ Declaration and Power of Attorney - 2 Total Sheets

☒ Unexecuted

☐ Newly executed (original or copy)

- ☐ Copy from a prior application (37 CFR 1.63(d))  
(relates to continuation/divisional boxes completed) - NOTE: Box below
- ☐ Deletion of Inventor(s): Signed statement attached deleting inventor(s) named in prior application; see 37 CFR 1.63(d)(2) and 1.33(b)
- ☐ Incorporation By Reference (useable if copy of prior application Declaration being submitted)

The entire disclosure of the prior application, from which a COPY of the oath or declaration is supplied as noted above, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

- ☐ Microfiche Computer Program (Appendix)
- ☐ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
- ☐ Computer Readable Copy
- ☐ Paper Copy (identical to computer copy)
- ☐ Statement verifying identify of above copies

**ACCOMPANYING APPLICATION PARTS**

- ☐ Assignment Papers (cover sheet & document(s))
- ☐ 37 CFR 3.73(b) Statement (when there is an assignee)
- ☐ English Translation Document (if applicable)
- ☐ Information Disclosure Statement(IDS) with PTO-1449. ☐ Copies of IDS Citations
- ☐ Preliminary Amendment
- ☐ Return Receipt Postcard (MPEP 503)
- ☒ Certified Copy of Priority Document(s) with Claim of Priority  
(if foreign priority is claimed).
- ☐ OTHER:

If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information:

- ☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)  
of prior application Serial No. \_\_\_\_\_.

☐ Amend the specification by inserting before the first line the following sentence:  
--This application is a ☐ continuation, ☐ divisional or ☐ continuation-in-part of application  
Serial No. \_\_/\_\_, filed \_\_\_\_\_.--

13281 U.S. PTO  
012804

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**FEE CALCULATIONS:** (Small entity fees indicated in parentheses.)

(1) For	(2) Number Filed	(3) Number Extra	(4) Rate	(5) Basic Fee \$770.00
Total Claims	<u>16</u> - 20 =	0	x \$18	0
Independent Claims	<u>1</u> - 3 =	0	x \$86	0
Multiple Dependent Claims			\$290	None
Assignment Recording Fee per property			\$40	
			<b>TOTAL FEE:</b>	<b>\$ 770.00</b>

**METHOD OF PAYMENT:**

- ☒ If payment is not enclosed, it is respectfully requested that the Patent and Trademark Office advise the undersigned of the period of time within which to submit the total fee.

Respectfully submitted,

*Richard A. Sterba*

Date: January 28, 2004

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